

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1641cxc

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 11	CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property)
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:53:49 ON 24 JAN 2005

=> c-peptide and antibody

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file .meeting

'EVENTLINE' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):ignore

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'AGRICOLA' ENTERED AT 10:54:45 ON 24 JAN 2005

FILE 'BIOTECHNO' ENTERED AT 10:54:45 ON 24 JAN 2005

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FILE 'CONFSCI' ENTERED AT 10:54:45 ON 24 JAN 2005

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FILE 'HEALSAFE' ENTERED AT 10:54:45 ON 24 JAN 2005

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FILE 'IMSDRUGCONF' ENTERED AT 10:54:45 ON 24 JAN 2005

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FILE 'LIFESCI' ENTERED AT 10:54:45 ON 24 JAN 2005

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FILE 'MEDICONF' ENTERED AT 10:54:45 ON 24 JAN 2005

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FILE 'PASCAL' ENTERED AT 10:54:45 ON 24 JAN 2005

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=> c-peptide and antibody

L1	5	FILE AGRICOLA
L2	250	FILE BIOTECHNO
L3	6	FILE CONFSCI
L4	0	FILE HEALSAFE
L5	0	FILE IMSDRUGCONF
L6	91	FILE LIFESCI
L7	0	FILE MEDICONF
L8	235	FILE PASCAL

TOTAL FOR ALL FILES

L9	587	C-PEPTIDE AND ANTIBODY
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=> 19 and second antibody

L10	0	FILE AGRICOLA
L11	3	FILE BIOTECHNO
L12	0	FILE CONFSCI
L13	0	FILE HEALSAFE

L14 0 FILE IMSDRUGCONF  
L15 0 FILE LIFESCI  
L16 0 FILE MEDICONF  
L17 2 FILE PASCAL

TOTAL FOR ALL FILES

L18 5 L9 AND SECOND ANTIBODY

=> dup rem

ENTER L# LIST OR (END):l18

DUPLICATE IS NOT AVAILABLE IN 'IMSDRUGCONF, MEDICONF'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L18

L19 3 DUP REM L18 (2 DUPLICATES REMOVED)

=> d l19 ibib abs total

L19 ANSWER 1 OF 3 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN  
DUPLICATE

ACCESSION NUMBER: 1996:26103157 BIOTECHNO

TITLE: Immunoluminometric assay (ILMA) for intact human  
proinsulin and its conversion intermediates

AUTHOR: Zilkens T.M.; Eberle A.M.; Schmidt-Gayk H.

CORPORATE SOURCE: Endocrine Laboratory, Im Breitspiel 15,D-69126  
Heidelberg, Germany.

SOURCE: Clinica Chimica Acta, (1996), 247/1-2 (23-37)

CODEN: CCATAR ISSN: 0009-8981

DOCUMENT TYPE: Journal; Article

COUNTRY: Netherlands

LANGUAGE: English

SUMMARY LANGUAGE: English

AN 1996:26103157 BIOTECHNO

AB We describe an immunoluminometric assay (ILMA) for determination of  
intact proinsulin and its conversion intermediates, 32,33-split and  
65,66-split proinsulin, in human serum. After incubation of the serum  
samples with the IgG fraction of a guinea pig antiserum against human  
insulin coated to the surface of polystyrene beads, a sandwich complex  
was formed using a monoclonal **antibody** against human C  
-**peptide** labelled with acridinium ester as **second**  
**antibody**, yielding a detection limit of 0.11 pmol/l. Mean  
proinsulin concentration in the serum of 38 healthy fasting subjects was  
7.3 pmol/l (S.D.  $\pm$  5 pmol/l, median 5 pmol/l, 95th percentile 15  
pmol/l); maximum serum proinsulin after oral glucose stimulation never  
exceeded 40 pmol/l. Eighteen of 20 patients with confirmed insulinoma had  
proinsulin concentrations over 50 pmol/l (mean 261 pmol/l, S.D.  $\pm$  248  
pmol/l, median 170 pmol/l, 95th percentile 663 pmol/l); serum proinsulin  
in two patients with completely enucleated B-cell adenoma declined to  
normal values after surgery.

L19 ANSWER 2 OF 3 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN  
DUPLICATE

ACCESSION NUMBER: 1992:22261914 BIOTECHNO

TITLE: A rapid and sensitive radioimmunoassay for the  
measurement of proinsulin in human serum

AUTHOR: Bowsher R.R.; Wolny J.D.; Frank B.H.

CORPORATE SOURCE: Lilly Clinical Research Laboratory, Wishard Memorial  
Hospital, 1001 West Tenth Street, Indianapolis, IN  
46202, United States.

SOURCE: Diabetes, (1992), 41/9 (1084-1090)

CODEN: DIAEAZ ISSN: 0012-1797

DOCUMENT TYPE: Journal; Article

COUNTRY: United States

LANGUAGE: English

SUMMARY LANGUAGE: English

AN 1992:22261914 BIOTECHNO  
AB RIA methodology is used widely to measure proinsulin in human serum. However, some RIAs lack the sensitivity necessary to quantify proinsulin in unextracted serum and require long incubation periods. We developed an RIA with a sensitivity of 3.5 pM that permits the routine measurement of proinsulin in <48 h. This was accomplished by using a nonequilibrium binding reaction at room temperature and PEG-assisted **second antibody** precipitation as the method for separating bound and free proinsulin. We obtained a specific antiproinsulin **antibody** by adsorbing the initial goat antiserum with human C-peptide-agarose. Proinsulin produced 50% displacement of tracer at 25.6 pM, whereas both human insulin and C-peptide failed to displace tracer at concentrations as high as 1  $\mu$ M. We evaluated several cleaved derivatives of proinsulin for cross-reactivity with the **antibody**. B-chain-C-peptide cleaved derivatives ( $\leq$ 50% cross-reactivity) were more potent than A-chain-C-peptide cleaved derivatives ( $<$ 5% cross-reactivity). However, all derivatives cleaved in the region from 56-60 failed to cross-react with the antiserum. These data indicate that a major antigenic determinant is present on the C-peptide region of proinsulin adjacent to the A-chain-C-peptide junction. After administration of an oral glycemic challenge, the mean fasting serum concentration of proinsulin in normal adults rose from  $4.1 \pm 0.28$  to  $23.6 \pm 3.8$  pM. We found a significant difference in the proinsulin concentrations in 6 adults before and after a glycemic challenge when two different **antibodies** were used in the RIA. Based on the **antibodies** different specificity for proinsulin, we concluded that B-chain-C-peptide junctional split forms of proinsulin comprise a significant portion of circulating proinsulin material after a glycemic challenge.

L19 ANSWER 3 OF 3 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN  
ACCESSION NUMBER: 1990:21058009 BIOTECHNO  
TITLE: An improved method for determination of human C-peptide in serum and urine  
AUTHOR: Iizuka Y.; Ikegaya E.; Tashiro M.; Nakazawa N.; Mochizuki T.; Yanaihara N.  
CORPORATE SOURCE: Daiichi Radioisotope Laboratories, Tokyo 103, Japan.  
SOURCE: Biomedical Research, (1990), 11/6 (417-423)  
CODEN: BRES D5 ISSN: 0388-6107  
DOCUMENT TYPE: Journal; Article  
COUNTRY: Japan  
LANGUAGE: English  
SUMMARY LANGUAGE: English

AN 1990:21058009 BIOTECHNO  
AB Determination of human C-peptide levels (human C-peptide: human CP, human proinsulin 33-63) in serum or urine is a valuable tool in the diagnosis of diabetes mellitus. In order to monitor C-peptide levels more efficiently than with a conventional C-peptide radioimmunoassay kit (CP RIA kit), we have improved kit assay ingredients and modified the assay procedure. The C-peptide used for standard and for label was synthesized by a solid phase method, and a C-peptide antiserum was generated in goats which were immunized with a C-peptide-bovine serumalbumin (BSA) conjugate. An anti-goat immunoglobulin G Fc fragment (IgG-Fc) mouse monoclonal **antibody** (MCA) was used as a **second antibody**. A solid phase double **antibody** method in which a **second antibody** immobilized on beads was used for measurement of human C-peptide levels in serum and urine. Assay results are obtained within 5 by a one-day procedure and more precise results by a two-day procedure. This human C-peptide radioimmunoassay system can be used to evaluate insulin-dependent

diabetes mellitus (IDDM) and non insulin-dependent diabetes mellitus (NIDDM) .

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	487	(c adj1 peptide) same antibody	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 10:37
L2	79	(c adj1 peptide) same antibody same second	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 10:37
L3	30	I2 and (human same insulin)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:49
L4	835	"C-peptide"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:49
L5	0	I4 same antiody same second	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:50
L6	0	I4 same antiody	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:50
L7	0	I4 and antiody and second	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:50
L8	668	I4 same insulin	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:50
L9	154	I8 same antibody	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:51
L10	15	I9 same second	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/24 11:51